

### **ABSTRACT OF THE DISCLOSURE**

An X-ray source has an evacuated housing containing an interior space and a housing projection having a projection interior communicating with the interior space. A cathode is mounted in the projection interior and an anode is mounted in the interior space. Two tubes proceed substantially parallel to each other through the projection and are sealed relative to the projection interior, the two tubes being disposed on opposite sides of an electron beam that proceeds from the cathode to the anode during operation of the X-ray source. An electromagnetic electron beam deflector has a U-shape with two legs that are respectively disposed in the tubes. The electron beam deflector is controllable to generate a magnetic field that deflects the electron beam to set a position of the focus on the anode.

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